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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
09/839,121	04/23/2001	04/23/2001 Robert Vincent Michel Oerlemans		1622	
22850	7590 01/29/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			MALZAHN, DAVID H		
			ART UNIT	PAPER NUMBER	
-	,		2124	5	
			DATE MAILED: 01/29/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

		App	lication No.	App	licant(s)		
	Office Action Summan	''	339,121	OEF	OERLEMANS, ROBERT VINCENT		
•	Office Action Summary	Exa	miner	Art			
			d H. Malzahn	2124			
Period fo	The MAILING DATE of this commu or Reply	nication appears	on the cover sheet	with the corres	pondence address		
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUI nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this core period for reply specified above is less than thirty period for reply is specified above, the maximum are to reply within the set or extended period for repreply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In nmunication. (30) days, a reply within a statutory period will apply ly will, by statute, cause	n no event, however, may the statutory minimum of the and will expire SIX (6) Months the application to become	a reply be timely filed hirty (30) days will be ONTHS from the ma ABANDONED (35 t	d e considered timely. iling date of this communication. J.S.C. § 133).		
1)[Responsive to communication(s) fi	led on					
2a) <u></u> □	This action is FINAL .	2b)⊠ This action	is non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-3,5-7 and 10-12 is/are rejected. Claim(s) 4,8 and 9 is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
	ion Papers	iction and/or elec	uon requirement.				
	The specification is objected to by t	he Evaminer					
-			cepted or b) obi	ected to by the	e Examiner.		
,,	The drawing(s) filed on 23 April 2001 is/are: a) accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Pri rity	under 35 U.S.C. §§ 119 and 120						
* (3)	Acknowledgment is made of a clai All b) Some * c) None of 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copie application from the Internat See the attached detailed Office act Acknowledgment is made of a claim ince a specific reference was include 7 CFR 1.78. 1) The translation of the foreign leads Acknowledgment is made of a claim eference was included in the first see	y documents have y documents have sof the priority do ional Bureau (PC ion for a list of the for domestic priority do in the first senuaguage provision for domestic priority for domestic priority documents have a priority document and the priority documents have a priority documents have a priority document and the priority document and the priority document and the priority documents have a priority document and the priority do	e been received. e been received in cuments have been T Rule 17.2(a)). e certified copies no rity under 35 U.S.0 tence of the specifical application has rity under 35 U.S.0	Application Noten received in the control of the co	o this National Stage a provisional application) n Application Data Sheet. d. for 121 since a specific		
Attachmen							
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449)		′ ==	- ,	413) Paper No(s) Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Chuang et al (Chuang).

Chuang's Fig. 1 shows a digital true random number generator including a linear feedback shift register (the D flip flops and the XOR circuits) with a system clock (Clock 29) and a plurality of free running ring oscillators (Oscillators 1-7) connected to the input of the LFSR with the GCD of the frequencies of the clock and the oscillators being 1 (col. 2, lines 56-67).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chuang and Dvorak et at (Dvorak).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement the ring oscillators of Chuang with an odd number of inverters circuits because Dvorak teaches that a ring oscillator may be implement with an odd number of inverters, note Fig. 2A and col. 5, lines 45-58.

5. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuang and Walsh et al (Walsh).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the random number generator of Chuang in a transaction terminal that includes encryption because Walsh teaches this as an application for random number generators, note col. 1, lines 12-16.

6. Claims 1-3, 5-7 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walsh and Ogrodski.

Walsh's Fig. 1 shows a digital true random number generator including a linear feedback shift register (CRC 117 of Fig. 1 and col. 5, lines 3-8) with a system clock (Sample Clock) and a free running ring oscillator including a odd number of inverter circuits (Fig. 6) connected to the input of the LFSR. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to replace the oscillator of Walsh with a plurality of oscillators with the LCD being a 1 (col. 9, lines 33-63) feeding an EOR circuit which in turn feeds a D flip flop as

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taught by Ogrodski (Fig. 1) because this would improve the randomness of the random number generator.

Allowable Subject Matter

7. Claims 4, 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

David H. Malzahn Primary Examiner Art Unit 2124